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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/781,148	02/08/2001	David Charles Lyons	12929.1053US01	7450
23552 75	590 03/31/2004		EXAMINER	
MERCHANT & GOULD PC P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903		YOON, TAE H		
			ART UNIT	PAPER NUMBER
	,		1714	

DATE MAILED: 03/31/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	Application No.	Applicant(s)			
	09/781,148	LYONS ET AL.			
Office Action Summary	Examiner	Art Unit			
★	Tae H Yoon	1714			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 12 Ja	nuary 2004.				
2a)⊠ This action is FINAL . 2b)□ This	action is non-final.				
3) Since this application is in condition for allowar					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4) Claim(s) 30-39 is/are pending in the application	1.				
4a) Of the above claim(s) is/are withdraw					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>30-39</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachmont(c)					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	atom application (1.10-102)			

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 30-39 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The recited "greater than 0" in claim 30 does not have support in the originally filed specification and thus constitute NEW MATTER. Applicant failed to point out a particular support. The lowest amount of inorganic fibers seen in table 3 is 3.3 wt.%.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 30-32 and 36-39 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Rancoulle (US 4,951,852).

Rancoulle teaches the instant composition in abstract and table on col. 2. Fused silica grains (30-85%) meet the instant inorganic binder (10-40%). Ceramic fibers (0-10%) and frits (0-40%) meet the instant inorganic fibers (greater than 0 about 25%) and filler (15-70%), respectively. Broad overlapping ranges are anticipation. Thus, the instant invention lacks novelty.

Claims 30-39 are rejected under 35 U.S.C. 103(a) as obvious over Rancoulle (US 4,951,852).

The instant invention further recites employing 0.1 to 0.5% by weight of an acrylic polymer. However, Rancoulle also teaches employing up to 7% by weight of an acrylic resins at col. 3, lines 29-30.

It would have been obvious to one skilled in the art at the time of invention to utilize 0.1 to 0.5% by weight of an acrylic polymer in the composition of Rancoulle since Rancoulle teaches employing up to 7% by weight of an acrylic resins and since choosing a small range within a range is a *prima facie* obviousness absent showing otherwise.

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Claims 30-32 and 36-39 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Andersen et al (US 6,090,195).

Rejection is maintained for reason of record and following.

The intended use, compression molding has no probative value. There is no particular component contributing the alleged fire-retardancy recited in claims contrary to applicant's assertion. For example, claim 1 encompasses 15 wt% inorganic fiber, 40 wt% binder (which can be cellulose) and 45 wt% water, for example, and the examiner does not see any particular limitation for compression molding of fire-retardant products. Claim 2 encompasses 1 wt% inorganic fiber, 10 wt% inorganic binder, 19 wt% water and 70 wt% organic polymer which would yield non- fire-retardant products because said organic polymer would burn.

Claims 30-32 and 36-39 are rejected under 35 U.S.C. 103(a) as obvious over Howorth et al (US 5,736,109).

Andersen Howorth et al teach a composition comprising 20-50 wt.% of an organic binder, 5-79 wt% of an inorganic binder, 0-70% of fillers including fibers at col. 3, lines 39-53. One of said organic binder is taught at 44.5 and 60.5 wt.% solids aqueous acrylic emulsion at col. 4, lines 42-53, and thus 20-50 wt.% of an organic binder yields about a half water (10-25 wt.%). Various inorganic fibers are taught at col. 5, lines 21-57 wherein the use of up to 5 wt.% of glass fibers is taught.

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It would have been obvious to one skilled in the art at the time of invention to utilize instantly recited amounts of components in Howorth et al since Howorth et al teach such modification.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tae H Yoon whose telephone number is (571) 272-1128. The examiner can normally be reached on Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tae H Yoon
Primary Examiner

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THY/March 23,2004